APPENDIX G

TIRE LIFE AND TIRE WEAR FACTORS

SECTION I. TIRE WEAR FACTORS

The tire wear factors used in this pamphlet are listed in APPENDIX D. The "useful life" of a new tire is the product of Condition Factors (CF) from Group A through Group E multiplied by the Wheel Position Factor (WPF), and for drive tires only, the Grade Factor (GF). These factors provide a percentage reduction to the maximum tire life. Section II, Maximum Tire Life, states tire life in hours. See Chapter 2 for tire methodology.

Drive Tires: Useful Tire Life = (CF x WPF x GF)
All Other Tires: Useful Tire Life = (CF x WPF)

EXAMPLE*

Factors are specifically for a rear dump wagon.

Cond	dition I	Factors (CF):	<u>Average</u>	<u>Severe</u>			
A B C D E	Maintenance Speeds Curves Surface Condition Loads		1.00 0.80 1.00 0.90 <u>0.90</u>	1.00 0.85 0.90 0.70 <u>0.80</u>			
CF		luct of the factors B x C x D x E)	0.65	0.43			
Wheel Position Factors (WPF):							
WPF-FT WPF-DTR WPF-TT		Front Tire (FT) Drive Tire (DT) - Rear Dump Trailing Tire (TT)	0.90 0.70 1.00	0.90 0.70 1.00			
Grade Factor (GF):							
GF		Grade Factor (Drive Tires Only)	0.85	0.75			

^{*} Condition Factors, Wheel Position Factors, and Grade Factor are from GMC Terex Guide.

TIRE LIFE AND TIRE WEAR FACTORS

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SECTION I. TIRE WEAR FACTORS (continued)

EXAMPLE: FINAL TIRE WEAR FACTORS FOR WAGON, REAR DUMP (See APPENDIX D, Category W15)

	<u>Average</u>	<u>Severe</u>			
Front Tire - Average =					
(CF = .65)(WPF-FT = .90)	0.59				
Front Tire - Severe =					
(CF = .43)(WPF-FT = .90)		0.39			
Drive Tire - Average =					
(CF = .65)(WPF-DTR = .70)(GF = .85)	0.39				
Drive Tire - Severe =					
(CF = .43)(WPF-DTR = .70)(GF = .75)		0.22			
Trailing Tire - Average =					
(CF = .65) (WPF-TT = 1.00)	0.65				
Trailing Tire - Severe =					
(CF = .43) (WPF-TT = 1.00)		0.43			

SECTION II. MAXIMUM TIRE LIFE

Maximum tire life is used in the formula to determine tire wear cost.

MAXIMUM TIRE LIFE	<u>Hours</u>
Bias Ply Tires - Off highway E4, L4, and L5	5,000
Bias Ply Tires - All other bias tires	5,000
Radial Ply Tires - Off highway RL4	5,000
Radial Ply Tires - All other radial tires	5,000
Conveyor Belts	5,000